

# Mattia D'Urso

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github.com/mattiadurso  
Main languages: Python, R

## Education

- Oct 2020 - **Master of Science in Artificial Intelligence and Cybersecurity**,  
Oct 2022 University of Studies of Udine (Italy).  
GPA: 29.2/30
- Oct 2020 - **Master of Science in Artificial Intelligence and Cybersecurity**,  
Oct 2022 Alpen-Adria-Universität Klagenfurt (Austria).
- Oct 2017 - **Bachelor of Science (Hons) in Internet of Things, Big Data and Web**,  
Oct 2020 University of Studies of Udine (Italy).
  - **Bachelor Thesis:** "*Classification of web users by shallow inspection of packets and Deep Learning techniques*"

## Experiences

- Mar 2021 – **Research**, Artificial Vision and Real-Time Systems (AViReS) Lab, under supervision of Prof. Gian Luca Foresti and in collaboration with the European Defence Agency (EDA), the European Union, the Italian Ministry for the University and Research (MIUR), the Italian Ministry for Defence (MoD).
  - Developed a deep learning model with **Torchvision** for autonomous flight with drones using computer vision.
- Jul 2020 – **Research**, Intern at Department of Mathematics, Computer Science and Physics of  
Sep 2020 University of Studies of Udine, under supervision of Prof. Claudio Piciarelli and prof. Marino Miculan.
  - Optimized our supervised deep learning model with **Pytorch** for classification of web users on a dataset of 6M+ of TCP/IP packets.
  - Increased the accuracy of the model by 42% by hyperparameters fine tuning.

## Skills

- **Languages:** Python, R,  $\text{\LaTeX}$
- **Libraries:** Pytorch, Torchvision, NumPy, dplyr, tidyverse, ggplot2

## Research Interests

- **Computer Vision**
- **Deep Learning**

## Leadership and Awards

- Oct 2020 - **Master of Science program**, selected as one of 30 participants worldwide for the  
Oct 2022 Double Degree Master program in *Artificial Intelligence and Cybersecurity*.
- Oct 2018 - **Student representative**, reported to the Board of department and solved dozens of  
Today students problems of any kind.
- Jan 2018 - **Professional photographer**, worked independently and as a team in weddings,  
Today Michelin star events in the area and others.